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Prof developing DND firefighting tests

Study will develop new test, research physical effects of firefighting

By Richard Cairney

A firefighter strides purposefully through the concourse level of the University of Alberta Pavilion, scoops up an unconscious man and drags him to safety.

It isn't part of any disaster on campus. Rather, it is a unique research program to develop a new screening test for Department of National Defence firefighters and document the physiological demands of firefighting. Under the guidance of U of A physical education professor Dr. Stewart Petersen, physical education students huff, puff and sweat their way through a physically demanding circuit in which they are required to complete 10 firefighting tasks as quickly as possible.

"It's hot, and it's hard," said Randy Dreger, a graduate student working on the research project who has been through the circuit. He's right. The test volunteers are put through is grueling.

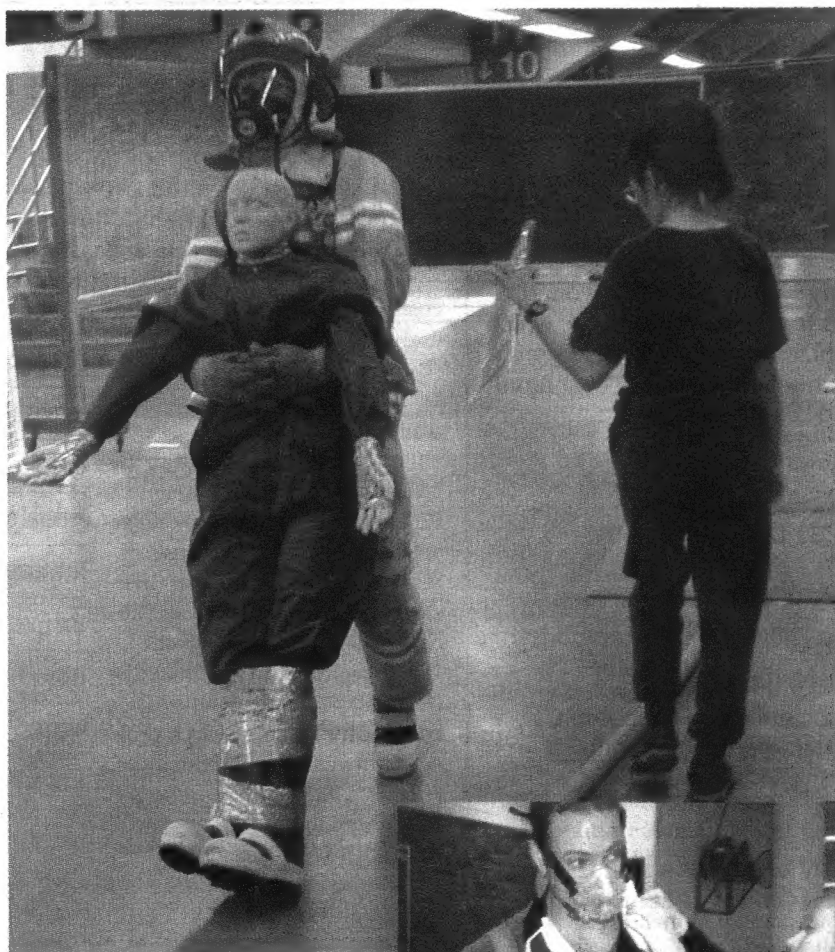
Petersen and his students are drawing upon a test all military firefighters are required to pass annually, in order to develop a test that will screen new firefighting applicants.

"We are taking an existing test that is, in my opinion, appropriate for incumbent firefighters, and creating a new series of tests that is suitable for applicants who do not necessarily have skills that come with firefighting experience or training," Petersen said.

Volunteers don full firefighting gear and are put through the circuit in order to measure the physical demands those activities have. The test subjects wear sensitive equipment to measure important physiological information such as heart and breathing rates and oxygen use.

"It tells us how much oxygen they are using—that gives us an indication of the intensity of the work, specifically around the cardiovascular system—that and the heart rate are the two most important factors we are getting," said Dreger.

While performing the tasks volunteers are asked, at different stages of the test, to rate their own perception of how hard



Dressed in full firefighting gear, a volunteer hauls a 'victim' to safety during a physical test. It's part of a project to develop a test for Department of National Defence firefighting applicants. Student volunteer Damien Wild (inset) is suited up with equipment to monitor his breathing.



they are working. Veteran military firefighters will also perform the test, and Petersen hopes they will be able to provide important feedback.

"We can ask them how hard they think the test is, and we can ask them if what they are doing is like what they do on the job," said Petersen. The test is being designed to put applicants through a series of common drills, such as dragging a charged fire hose 100 feet. Other

tasks in the circuit are not common but are critical, such as performing a rescue.

The next step is to develop standards in which to judge each applicant.

"That's the tricky part. You want to be able to eliminate the people who are not physically able to do that job and at the same time, you want to be sure that you don't set standards artificially high so that they exclude anyone who is capable of doing the work." ■

»» quick »» facts

Volunteers who participate in Dr. Stewart Petersen's research perform the same physical test all Department of National Defence firefighters must complete on an annual basis. Wearing heavy firefighting equipment that restricts movement, participants are required to:

- Carry a coiled, 36-lb. hose 100 feet;
- Carry a 24-foot ladder 50 feet and set it up safely;
- Drag a charged, 150-lb. hose 100 feet;
- Climb up and down 10 rungs of a ladder, three times;
- Using a rope, pull a coiled, 87-lb. hose 50 feet in one direction, then 50 feet in the opposite direction;
- Using a sledge hammer, slam a 225-lb. weight one foot along a tabletop to simulate a forced entry;
- Drag a 150-lb. 'victim' 100 feet;
- Climb up and down 10 rungs of a ladder, twice;
- Safely lower the 24-foot ladder and carry it 50 feet;
- Lift the 80-lb. Jaws of Life and carry the tool 100 feet.

A video showing Dr. Petersen taking a student volunteer through the drill is available for viewing online. Log on to the U of A Web site (www.ualberta.ca), click on 'ExpressNews Archives' and then the Dec. 6 article *Prof puts firefighters to the test*.

Schindler slams federal budget

Scientist accustomed to speaking out in times of crisis

By Stephen Osadetz

Though his colleagues gathered at the Faculty Club on Dec. 10 to celebrate his winning of the Herzberg medal, Dr. David Schindler had bigger issues than his own glory on his mind. Schindler used his moment in the spotlight to attack the new federal budget, saying its narrow focus on security was grossly irresponsible.

Despite his fiercely political statements, Schindler was being honoured for the Gerhard Herzberg Gold Medal for Science and Engineering, an award he won last month. The medal, which carries \$1 million in research funding, will be added to

Schindler's long list of accolades, including the Stockholm Water Prize, the Volvo International Environment Prize, and a fellowship in the Royal Society of London.

The respect he's received for his research into the effects of acid rain and phosphorous-containing detergents on

"I think we live in a very strange time.... It's remarkable that people in power never seem to have any vision and people who have vision never have any power."

— Dr. David Schindler

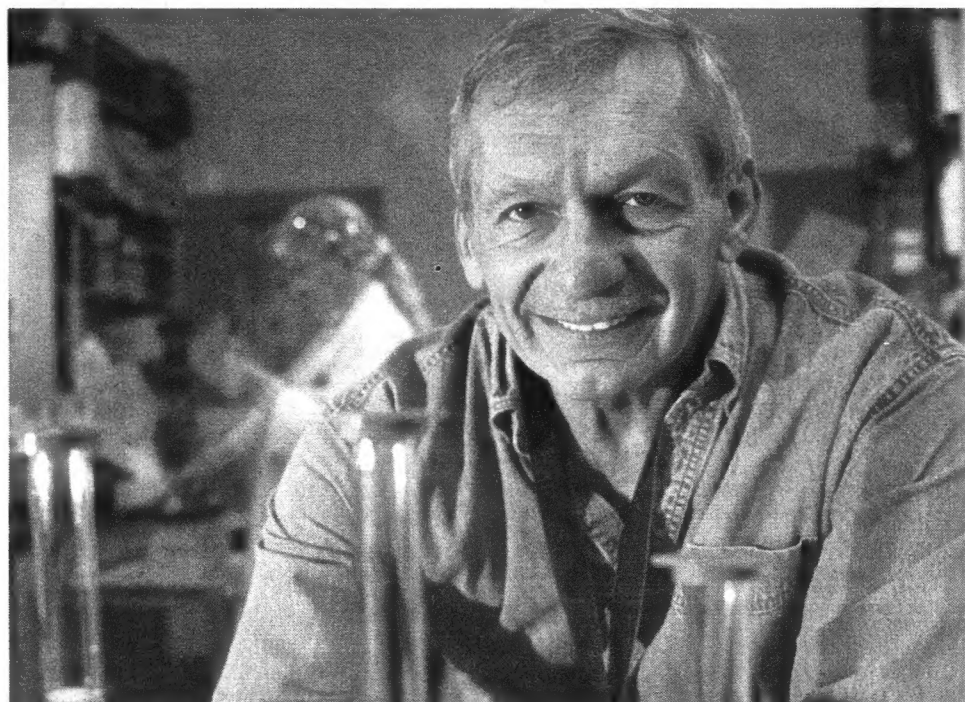
lakes has allowed Schindler to be outspoken in his defense of the environment. He certainly didn't avoid controversy on Monday, when he said the federal government's budget was short sighted: "I think we live in a very strange time. ... It's remarkable that people in power never seem to have any vision and people who have vision never have any power."

Schindler decried the fact that \$7.7 billion, more than half of the new spending announced, would go towards security. He described the spending as a lapse of judgment on the part of the government. "I find (the budget) disgusting for a country that hasn't had a single act of terrorism or a single case of anthrax. Talk about throwing money down a rat hole."

The budget, in Schindler's opinion, ignored more pressing but less sensational issues such as water and air quality. "The real terrorism is not going to be from airplanes. It's going to be in the air we breathe and the water we drink. ... Terrorism pales next to (our environmental problems)."

Schindler also said the seven-per-cent increase received by scientific funding agencies like the Natural Sciences and Engineering Research Council of Canada (NSERC) wasn't nearly enough. "Big deal. ... That won't even match the cost of inflation."

He said the strain on these funding bodies would force researchers to turn to private industry for money to keep working. "Of course, industry likes to do things that help industry, not the public good," he said.



The U of A officially honoured Dr. David Schindler for winning the prestigious Herzberg Gold Medal for Science and Engineering. He used the opportunity to criticize the federal budget.

Though the speakers who preceded Schindler, notably U of A President Dr. Rod Fraser and Dean of Science Dr. Dick Peter spoke warmly of Schindler's innovative and highly-influential research, they also mentioned how politically charged his work was.

Peter spoke about how Schindler's research is often a thorn in the side of those who want to exploit the environment. "As a dean, I've had my share of phone calls, letters, and e-mails, saying, 'Shut that guy up!' I'm pleased to say

these letters have been recycled and they've contributed to the environment," he joked.

Schindler is accustomed to speaking out. His research has produced more than 200 articles in scientific journals, including 20 in *Science* and *Nature*, two of the most reputable.

Fraser praised Schindler for his "happy combination of abilities and talents: that ability to do excellent work in his science and the moral fibre to speak out in times of crisis." ■

folio

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Faculty of Science
University of Alberta

Announcement

Faculty of Science Research Award

We are seeking nominations for the Faculty's most promising young scientists for this annual award, which recognizes outstanding research achievement. Nominees must have obtained their doctorates in 1989 or later.

Deadline:
31 December 2001

For details of eligibility and conditions, please contact:

Dr. H.I. Freedman
Associate Dean (Research)
E-mail: herbfr@ualberta.ca
(780) 492-3169

Faculty of Science Award for
Excellent Teaching

We are seeking nominations from students and departments in the Faculty of Science for this annual award for individuals with outstanding qualities in undergraduate teaching.

Deadline:
25 January 2002

For details of eligibility and conditions, please contact:

Dr. W.J. Page
Associate Dean
E-mail: bill.page@ualberta.ca
(780) 492-9452

Research gets budget boost

But \$200-million won't go far in covering indirect research costs

By Richard Cairney

Although his focus was almost exclusively on security issues Finance Minister Paul Martin gave Canadian universities some financial relief to help cover indirect costs of research in the new federal budget.

Universities across the country have been lobbying for such assistance, and it came—although they'd hoped for more. Martin announced a "one-time," \$200-million fund to help universities cope with indirect costs of research, such as administrative support, upkeep of libraries, laboratory space and equipment.

Those costs are estimated at about 40 per cent of the total cost of any given research project. Last year, the University of Alberta's indirect research costs hit \$79 million.

U of A Vice-President (Research) Dr. Gary Kachanoski welcomed the announcement.

"It's a good start," he said. "It's official recognition that these are direct costs and that the federal government has a role in covering them. Given the (post-Sept. 11) climate, it could have been a lot worse."

While the total amount is low, he added, its symbolism is significant. "We were obviously looking for a longer-term commitment that would come every year. But we will absolutely make good use of it."

U of A Students' Union President Chris Samuel said the federal government is moving in the right direction but could have gone further in providing assistance to students and prospective students.

The \$200 million fund to help with indirect costs of research won't go far, he noted, but it will free up some money at the U of A. "The university has to decide where its

priorities are, and we hope it is in tuition relief and enhancing the learning environment," he said.

Samuel said he and other student leaders had hoped for reforms to the student loan program. In particular, he said, students want to see less emphasis put on parental contributions to post-secondary education.

"We'd like to see the elimination of that clause," he said of regulations demanding parents help their adult children pay for an education.

Samuel said he was pleased to see increased funding for disabled students attending post-secondary institutions.

Other highlights of the budget, as they related to universities, include:

- Increased spending for the Canadian Institute for Advanced Research to \$5 million per year from \$3.5 million;
 - A seven-per-cent increase in budgets for the Natural Sciences and Engineering Research Council and the Social Sciences and Humanities Research Council, raising their total budgets to \$36.5 million and \$9.5 million respectively.
 - An additional \$110 million over the next three years for the National Research Council to support leading-edge technology centres such as the NRC's National Institute for Technology at the University of Alberta.
 - An increase of \$75 million to the Canadian Institutes of Health Research, raising its budget to \$561 million.
- Kachanoski said the increase in funds available to researchers is timely. "It's absolutely necessary," he said. ■

No way home for U of A business student

Student finds a new life in a new land

By Terese Brasen



Safia, a U of A business student, fled Afghanistan with her family and lived as a refugee in Pakistan for years. While family members remain in Afghanistan and as refugees in Pakistan, Safia can't imagine going home.

"I remember the first day of the bombing, the planes flying," says Safia, surprised by her memory because in 1979 when Russia invaded Afghanistan she was only

mation. I just say how is Jalalabad?"

Before the Russian invasion, life was good for some Afghans, and Safia's family was fortunate. Associated with King Mohamed Zahir Shah, they were Syeds, or descendants of the prophet Mohammad, and belonged to the majority ethnic group, Pashtuns. "In Kabul we had lands, we had our home, we had everything," says Safia, who grew up with her parents' stories and memories.

During the 1960s, King Zahir Shah pushed western-style reforms on a traditional country rooted in Islam. "Kabul was known as mini Beirut," she says. "There were clubs and bars. The king went to Turkey and Europe, came back and started liberating the society. Families were educated. Women went to school. My aunts and my mom went to school, they wore western clothes and they loved it.

"Some still say that is why everything happened. We were not listening to Islam and God got mad at us."

The monarchy itself was a western idea, established in 1919 with King Zahir Shah's father. It ended in 1973 when Mohamed Daud declared Afghanistan a republic and himself president.

Russia moved in five years later, in

of the males of another religious family," says Safia. (A family can include grandparents, uncles, aunts, several wives and all the resulting children.) "We knew we were next, so everyone ran. My father had 12 brothers, and one night we all had to flee."

Safia describes her memories of the flight to Pakistan as sketchy images.

"I remember the first days in Pakistan, coming from a very rich family then having nothing. My father said we were visiting Pakistan and we would go back. We had nothing. I remember being hungry. I remember crying. I remember how desperate my father was. I still remember the look in his eyes."

The conflict in Afghanistan lasted until 1989 and the fall of the Soviet Union. The US withdrew, the civil war continued and the Taliban eventually took power.

Since 1979, thousands of Afghan families have lived in refugee camps bordering Afghanistan. "We are always consid-

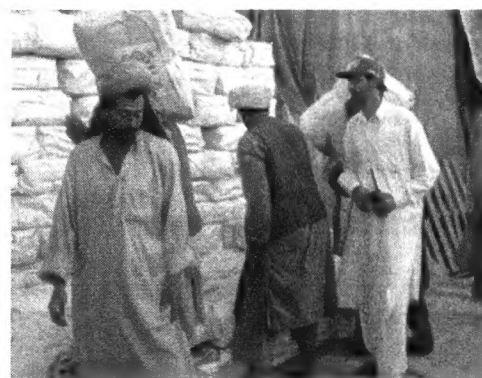
ask it to take you to a hotel, then in the morning go to the university and find WUSC."

"I was afraid. I had never travelled alone in my life. There is a lot of Taliban influence in Pakistan. In Pakistan, to cross the street you need a brother or father. I didn't know where south or north was. I had no sense of direction because all I knew was to follow my brother or father. For me to hire a cab and trust that guy to take me to a hotel was such a big deal."

Safia describes modern Afghanistan as the aftermath of poverty and illiteracy.

"The Taliban are people who have been denied opportunities and resources. They were just like peasants who had never experienced work or education. They got a hold of foreign aid and the government and didn't know

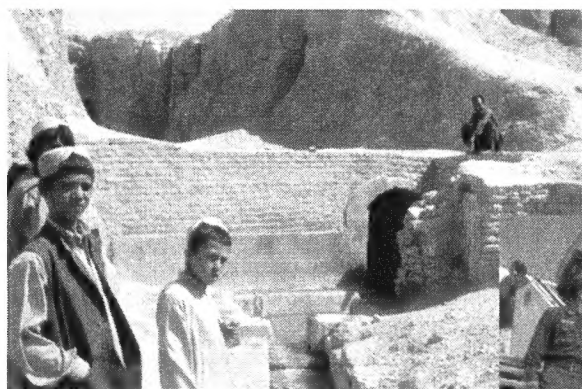
where to start so they turned to the very old and ancient, the stuff that is always



Photos courtesy UNHCR

one and a half. At least, that's her estimate, after translating the Muslim lunar calendar into our western way of counting.

"I was in my grandmother's lap," she says. "She was telling me that everything was going to be okay but my aunts were



running wild in the house, and I didn't know what was happening. Russia said they had come and would bring peace to this country but for me it wasn't very peaceful."

Today, Safia's grandmother is trapped inside Afghanistan, having refused to leave after September 11, reasoning it's better to die at home than in a refugee camp. Safia's mother waits for news inside a Pakistani refugee camp, while Safia watches CNN coverage of her homeland from the comfort of the University of Alberta and HUB Mall. "I call my mother once every two weeks. With CNN and all that, we have more information than the people there. I don't pass on all that infor-



ered refugees," says Safia, describing a misplaced people who longed for home. "They missed the weather, their families, the weddings, the deaths, all the good and bad things. They could never travel home. Refugee camps are horrible experiences."

Three and a half years ago after 19 years

as a refugee, Safia arrived in Edmonton, sponsored by the International Rescue Committee and the World University Services Centre (WUSC), an international organization that supports refugee students from around the world. Safia had managed to complete a Master's in Marketing, relying on hard work, scholarships and private sponsorship because refugees cannot access Pakistan's public schools. Now she would start over again, beginning another degree through the School of Business.

After flying from Pakistan to Amsterdam then Toronto, she landed in Edmonton at 10 p.m. in August, 1998. Expecting to see volunteers from WUSC, Safia found she had missed the contact. "I saw a person who looked Muslim, and I went to him but he couldn't help me. I think he wasn't used to talking to women without a Burqa. He said, 'Take a cab and

April 1978, when the People's Democratic Party of Afghanistan seized control. Marxist-Leninist reforms clashed with Afghan cultural traditions, and the anarchy that followed transformed Afghanistan into a Cold War crossroads, with the United States backing the Afghan resistance against the Soviet Union.

"One night, the Russians beheaded 97

good in myths."

While Safia can partly explain the Taliban, Osama bin Laden remains incomprehensible. "The Taliban created a vacuum for any crazy scientist to come in and implement his own ideas. Think of the lengths Osama went to—left billions of dollars to go live as a peasant in a cave in Afghanistan. He dragged his whole family there and made his daughter marry Mullah Mohammed Omar. Imagine being born and raised in Saudi Arabia with billions of dollars, then suddenly one day having to marry a cave man."

Although the Taliban have suffered defeat, Safia isn't confident the conflict is over. Like many Afghans of her generation, war has been an ongoing process. "I don't think it is going to be safe," she says. The issues that led to the creation of the Taliban, especially the dream of a free Palestinian state, have not been resolved, she says.

"The Taliban had Osama, and Osama had all the causes that the Muslim world had been fighting for, for years and years and years."

Safia adds that her dream is to get a PhD and stay here. "I have been through so many changes," she says. "There are so many parts to me now, part of me belongs in Afghanistan, part in Pakistan, some part in Canada. Three societies, three cultures and different religions—Islam and Christianity.

The conflict that fractured her country and her family leaves her wondering whether she will ever make it back home. ■

Students slip into Canadian culture

It's part of the balancing act international students face

By Ryan Smith

They may never make it to the Olympics—they might not ever be able to stand without flailing their arms—but they were happy to be on the ice for the first time. About 50 international students received free used skates and ice time at Clare Drake Arena as part of the annual University of Alberta Campus Recreation Skates Giveaway.

"I'm a little afraid," admitted Ling Yu, a chemical and materials engineering student from China. "I've only skated once before—last year in Toronto." But now, with her own pair of skates, Yu said she hopes to go skating a lot more.

Hugh Hoyles, director of Campus Recreation, said the program started eight years ago. "We wanted to build a sense of community and allow international students to try something that is an important part of Canadian culture. The response has been overwhelming from the international students' end of it—I only wish we had more skates donated so we could give more of them out."

Due to advertising posters in the U of A International Centre and word of mouth, all

the donated skates were spoken for just two days after they were made available. "But we cut a deal with the Outdoor Centre at the U of A; they're renting us skates for a dollar just for [Monday], and Campus Recreation is picking up the tab," said Hoyles. "This way everyone who shows up will be able to try skating even if they don't get to take home their own pair of skates."

Campus Recreation also had volunteers on hand to help the international students learn how to skate.

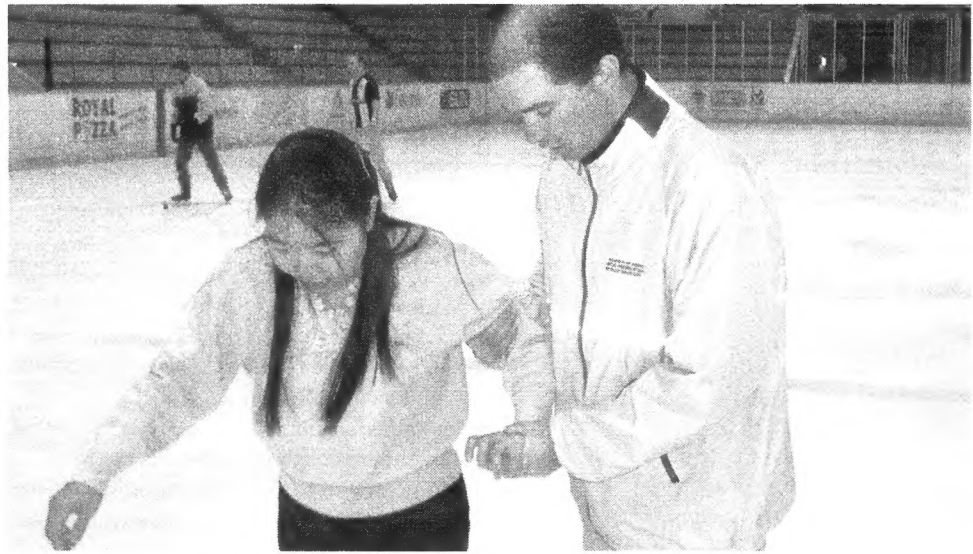
"It's a lot of laughs," said David Rewniak, a U of A graduate student in arts and a campus recreation volunteer skating instructor for about two years.

So, are the international skaters usually any good?

"To be honest, no," said Rewniak.

"They try to walk on the skates instead of skating, and going backwards or stopping is never easy for them, but it doesn't matter, it's all in fun. They keep coming back every week so they must be enjoying it too."

"My goal is not to fall over and eventually become comfortable on skates," said Chris Copas, a fourth-year arts student



A campus rec volunteer helps Ling Yu learn how to skate.

from Australia. "I'd say I've been on skates about a dozen times in my life, but I wouldn't say what I was doing on them was skating—at least not the way I was doing it."

The skate giveaway is a once-a-year event, but free skating at Clare Drake

Arena is open to the public every noon hour on Mondays, Wednesdays, and Fridays, as well as Sundays from 2:30 to 4:30 p.m. Next semester, Campus Recreation is planning to offer international students a free evening on the U of A climbing wall. ■

The \$6 million gift

Markin gives generous donation to engineering

By Geoff McMaster

The Faculty of Engineering is planning to add yet another building to its growing complex following a \$6 million donation to get their latest project off the ground.

Allan P. Markin, chairman of Canadian Natural Resources Limited (CNRL), will contribute \$3 million to a new state-of-the-art natural resources engineering building, with a matching \$3 million from his company.

The Markin/CNRL Natural Resources Engineering Facility will be a \$65-million research and teaching centre designed to meet increasing demand for graduates and research in programs related to natural resource development. Located next to the brand-new Electrical Computer Engineering Research Facility (ECERF) on the northwest side of campus, the nine-storey building will create 34 square metres of new space for the faculty, including 14 classrooms, 16 undergraduate labs and 84 research labs. The new facility will be geared towards all areas of natural resource development including petroleum, mining, environmental, geotechnical,



Dean of Engineering Dr. David Lynch and philanthropist Allan P. Markin look over plans for the new Markin/CNRL building.

water resources, structural and construction engineering.

"Education is one of the cornerstones to

sustainable growth for the province and energy industry," said Markin, a U of A '68 chemical engineering graduate. "In order to compete on a global scale, our industry needs to be a leader in developing new technologies and educating the people to implement them."

Markin has long been a friend of the U of A, supporting entrance scholarships in the engineering faculty since 1982. He has also supported the Parkland Institute, the Oil Sands Graduate Research Award and the Barbara and Myer Horowitz Library Endowment Fund.

"We are extremely proud to count Mr. Markin as one of our most distinguished engineering alumni," said U of A Dean of Engineering Dr. David Lynch. "And we are grateful to those alumni who, upon

graduating and making their way successfully in the world, in turn give back to their alma mater in such significant and transforming ways."

U of A President Dr. Rod Fraser said enrolment in engineering has almost tripled since 1972, and the faculty is planning a 40-per-cent expansion of programs offered. "At this rate, we'll be the largest engineering faculty in Canada," he said. "This generous donation will help ensure that the Faculty of Engineering continues to graduate high-quality engineers that are in strong demand."

Lynch said he will be looking to the provincial and federal governments as well as the public and private sectors for additional funding.

Construction of the new building is set to begin in July 2002 with expected completion by May 2004. ■

"Education is one of the cornerstones to sustainable growth for the province and energy industry. In order to compete on a global scale, our industry needs to be a leader in developing new technologies and educating the people to implement them."

— Allan Markin

Moot court champs representing Canada

Law students off to Sri Lanka for international meet

By Richard Cairney

After winning the National Gale Cup Moot last spring, a group of University of Alberta law students returned home to a hero's welcome. After all, they were the first U of A team to win the cup since its inception 27 years earlier.

Now that same group of students is headed to Sri Lanka, to represent Canada in the Commonwealth Moot, a competition held once every four years and judged by, well, judges, from across the Commonwealth.

"Unfortunately, we didn't find out about the Commonwealth opportunity until about six weeks ago, so we've had a very compressed time to put things together and co-ordinate the whole trip," said Tom Ross, a U of A Law School graduate who coaches the team.

Law students Robert Palser, Mike Reid, Jeremiah Kowalchuk and Sukhi Sidhu will compete in Sri Lanka until Dec. 23. They will present both sides in a

fictitious legal case that involves a mining company, which has allegedly caused lead poisoning among villagers in Numeria. The villagers have taken legal action against one of the mining company's major shareholders in England. The question is should the courts of England or Numeria decide the case.

Team members Sidhu and Palser will present arguments on both sides of the case while Reid and Kowalchuk will provide support. Although the case is hypothetical, the students need to draw on actual case law to present their arguments. And while arguing both sides of the issue might sound tricky, the students are finding it helps to know all sides of an issue no matter which case you are presenting.

"We've been preparing really hard. Many of the concepts are hundreds of years old so trying to take what a judge said 100 years ago and applying it to lead mining today is difficult," said Sidhu. "It is

just a completely different set of facts now. So on one hand we will be saying 'we've been doing this for 150 years, let's keep doing it that way,' or 'we've been doing this for 150 years and it's time we stopped.'"

The case, Sidhu said, will be won or lost on the basis of a solid presentation. "There are so many different factors and positions that the case doesn't turn so much on law as it does on how each person is able to present the facts."

For his part, Reid knows that style counts. At the Gale Cup Moot, he was named best orator. This time around, he's serving in a coaching capacity. During practice sessions, Reid observes the way Sidhu and Palser present their case and answer questions then offers his take on things.

"In some cases my style doesn't resonate with judges very well, whereas a more technical approach would. I just tell

them about an opening I saw is an opening or maybe how I'd have handled a certain question."

The fact that the students are judged on presentation style as well as facts makes their skills as orators essential. Because judges hearing the cases are from around the world, the students will need to read the reactions of judges and adjust their presentations accordingly.

"Style is part and parcel of being persuasive," said Ross. "And if practices are markedly different in some places than they are in others, that can have a huge impact. To some people, understatement is the greatest tool of persuasion but to others, flamboyance is."

The students' expenses are being paid by the Faculty of Law and the law firms of McLennan Ross, of which Ross is a partner, and Fraser Milner Casgrain, which will host one of the team members as an articling student. ■

Their country's good

Afghanistan's interim government needs deft politicians, and luck

By Dr. Andy Knight

As the war against the al-Qaeda terrorists (and those who harbored them) seems to be winding down, the international community, led by the United Nations, was in Germany crafting a landmark agreement to bring a "broad-based" post-Taliban interim government to Afghanistan. The question is: "will this initiative finally bring much needed peace to this devastated land?"

The military intervention in Afghanistan had two specific goals: the defeat of the international terrorist network (al-Qaeda) while, bringing an end to the ruthless Taliban government which hosted Osama bin Laden and his band of outlaws. The second goal was to assist Afghanistan in creating a stable, broad-based and participatory government, while channeling aid to the Afghan people.

Now, after 23 years of devastation and loss, which included internecine violence, Soviet occupation and radical Islamic rule, the people of Afghanistan finally see a glimmer of hope. The Taliban reluctantly gave up Kandahar. Their leader, Mullah Mohamed Omar, surrendered power to the anti-Taliban Afghan factions. The representatives of four Afghan tribes (Pashtun, Tajik, Uzbek, and Hazara) met with the UN representative, in Koenigswinter, Germany. Under the watchful eye of the American and German representatives they hammered out a deal which named Pashtun tribal leader Hamid Karzai as leader of the interim government effective Dec. 22, for a six-month period. Among the 29 appointees to the new administration there are, symbolically, two highly intelligent and brave women: Suhaila Seddiqi, a top surgeon who has been appointed as Minister of Health, and Sima Samar, the new Minister of Women's Affairs, who found out about her appoint-

ment while visiting the University of Alberta. Women were stripped of their rights during the Taliban regime.

Afghanistan has always had a government-in-waiting. Former King Zahir Shah, forced into exile during the Soviet occupation, was technically still the head of state. Northern Alliance leader Burhanuddin Rabanni continued to be recognized by the UN as the head of Afghanistan even after the Taliban forced its way into power.

Over the next six months, the interim administration will try to stabilize Afghanistan and help distribute vast amounts of financial and technical aid destined for the country. However, the task of governing Afghanistan will not be easy. Thousands of armed, loyal Taliban operatives slipped out of the country and have vowed to regain control of the country. Then there are the al-Qaeda cells outside of Afghanistan, capable of operating without a central command. It is quite possible some of these terrorist cells will engage in covert activities to undermine the transitional regime. Finally, and perhaps more importantly, some of the Afghan tribal leaders who assisted the Northern Alliance in dethroning the Taliban are noticeably upset about the fact that they have not been given a more prominent role in the interim administration. There is a strong possibility that these disgruntled warlords could choose not to co-operate during the transitional period. This prospect will increase if those warlords who committed atrocities during the civil war in

Afghanistan are de-legitimized and held to account for their actions.

However, if the UN-brokered strategy goes according to plan, we can expect that by July 2002 a



broad-based government will be put in place after a meeting of the loya jirga (a traditional tribal grand council). Those individuals not guilty of crimes against humanity, who now feel marginalized by the Koenigswinter agreement, will have a chance to become part of a legitimate Afghan government. In addition, the US will keep a close watch on potential Taliban and al-Qaeda spoilers and will pressure governments in the region to hand over these individuals so justice can be meted out to them.

Finally, the international community can be expected to maintain a focus on Afghanistan for some time to come. Afghans must be supported in their efforts to rebuild their beleaguered country, to create the political, economic and social conditions that would entice refugees and diaspora (many of them former technocrats and administrators) back home, to



disarm individuals and tribal groups, to establish an indigenous police force and national army, and most importantly to allow all Afghans (regardless of tribe) to reach their potential. This is my hope for a post-Taliban Afghanistan.

(Dr. Andy Knight is a professor of international relations in the Department of Political Science at the U of A. He is also editor of Global Governance.) ■

folio letters to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@ualberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.

Israeli video call opens eyes of young students

Technology connects Jewish students

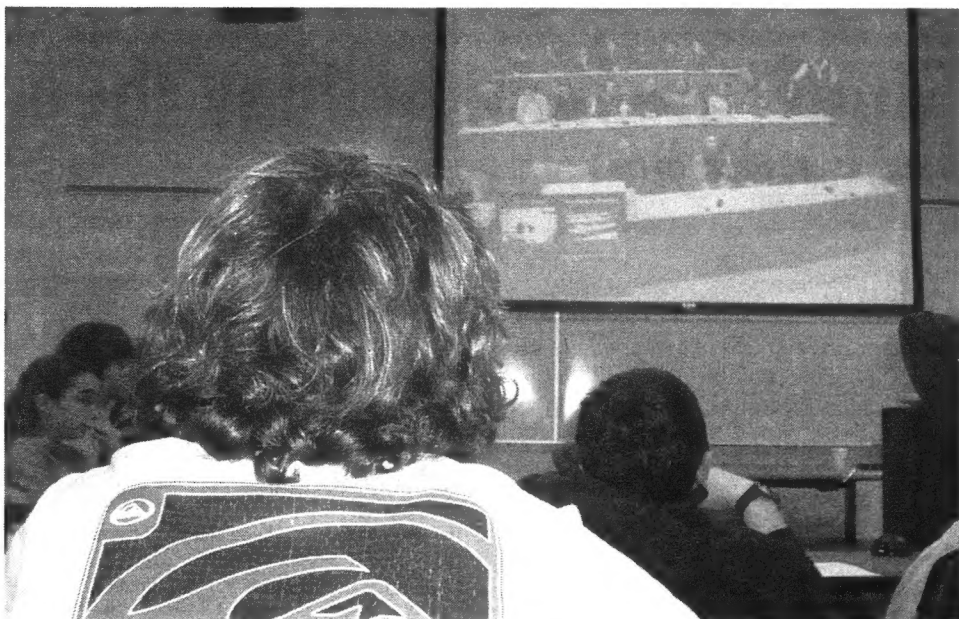
By Ryan Smith

For the past two years, Nurit Reshef has taken her Grade 9 students to Israel for a once-in-a-lifetime field trip. Plans are being made to go again, but the current political instability in Israel threatens to cancel the trip. So with the help from the University of Alberta School of Business, Reshef recently had the opportunity to take her class to Israel for a brief visit.

Using video conference technology in the School of Business's Eric A. Geddes Strategic Decision Lab, Reshef and her 19 students from Talmud Torah Junior High School, a Jewish school in Edmonton, were able to meet a Grade 9 class from the Emek Hachula school in northern Israel. With a series of cameras in both countries, the students could see each other and themselves on large screens and speak to each other as though they were in the same room.

"I've never done anything like that before—it felt like we were on The Jetsons," said Liz, a Grade 9 student at Talmud Torah. "Even if we don't get to go there at least we've met them face to face."

The Canadian students introduced themselves in Hebrew while the Israeli students spoke English. Both groups discovered commonalities, expressing penchants



Students from Edmonton's Talmud Torah school hold a videoconference with their counterparts in Israel.

for punk rock music, TV and sleeping.

However, just three days after two suicide bombers killed 10 and injured 180 in Jerusalem, the Talmud Torah class also asked the Emek Hachula students how they cope, living as they do in a climate of violence and terrorism.

A male Israeli student fielded the question. "We try to live normal lives. We're afraid of the terrorists, but we just try to live our lives. And we live in northern Israel, which is peaceful right now."

The students in Israel wondered how the Canadian students hear of news from

Israel, and how the news affects them.

"Thanks to technology, when things happen there we probably know about it the same time that you do," said one Talmud Torah student. A classmate went on to explain how the Edmonton students feel emotionally attached to their counterparts in Israel.

"We've been studying about Israel for about five years now, so we really feel connected to it," said Jacki, a Grade 9 student at Talmud Torah. "It would be an important experience to go there, and I hope we do, but I'm also a little afraid. I guess we'll just have to wait and see."

"You hear a lot of talk about the global community, and this is how it happens," said Brent Poohkay, assistant dean (technology) for the U of A School of Business. "This is an example of how we can use technology to make the world smaller."

Poohkay helped Reshef set up the call, which the Israelis paid for. Reshef received a grant from Telus to pay for the equipment and service at the U of A.

"We struck a good deal with the school to set up this event," Poohkay added. "It's important that we are able to make contributions like this to the community outside of the U of A." ■

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Afghan government member appointed while visiting U of A

Freedom Award recipient will be part of interim government

By Terese Brasen

Dr. Sima Samar was at the University of Alberta to deliver a lecture Dec. 5 when news reports from Germany named her as minister in charge of women's affairs and one of five vice-chairs of Afghanistan's new transitional government.

"I just learned that I am appointed but I don't know exactly (to) what because I just heard the news today," Samar told reporters, who descended on campus for a hastily called news conference.

Samar had hoped to return to Afghanistan next spring but will be home sooner than expected, with the transitional government set to take power for six months, starting Dec. 22. Although unclear of what her role will be, Samar has strong opinions about what needs to be done to restore order in Afghanistan.

She called for an international peace-keeping force to oversee a disarmament program and suggested the country could return to the stability it once enjoyed.

"I think we had a good secular (government) before Russia invaded the country," she said, when asked what kind of country she'd like Afghanistan to become. "Most likely it will be the same constitution we had in the 1960s."

The Afghan people face difficult times, she said. "It's not easy to work in that country. There is no military, no police, no infrastructure, no judiciary."

And although Samar said she has "practically no experience" in government, she has an international reputation for getting things done. Despite the Taliban ban on women's education and employment in Afghanistan, Samar has been operating schools for girls and health clinics in Afghanistan and in refugee camps inside neighbouring Pakistan. Samar was visiting the U of A as a guest lecturer for the International Centre for Human Rights and Democratic Development, which has awarded her the 2001 John Humphrey Freedom Award for her work with Afghan women.

In December 1979, Russia invaded Afghanistan, hoping to bring peace to a country fragmented by ethnic and tribal disputes. Belonging to a small ethnic minority, the Hazara, Samar joined the mujahedeen (holy warrior) resistance backed by both Pakistan and the US. After her husband's arrest and disappearance in 1984, Samar and her son joined thousands of Afghan refugees living in Pakistan.



Dr. Sima Samar was at the U of A when she learned she'd been appointed to Afghanistan's interim government.

Samar established her first hospital for women in 1987, then in 1989 formed the Shuhada Organization, a non-profit organization supporting women, children and the reconstruction of Afghanistan. Samar and her medical staff now run four hospitals and 10 clinics in Afghanistan and another hospital in Quetta. She also runs schools in rural Afghanistan and in Quetta where the Afghan refugees cannot access the government-funded public schools. Last year, Afghanistan's now-deposed Taliban rulers managed to close two of her hospitals.

"The work I am doing is not very special but the conditions and the situation are," said Samar. "It was not easy. Women could not work and all the attention was paid to the men because they were the ones fighting against Russia."

"I started a school," she added, "because through education things can change."

The international community needs to play an important role in that change, she says. Afghans have no history of terrorism and were not responsible for the Sept. 11 attacks on the US, "but we are paying the price," she said. So just as it was the international community's failure to prevent

the attacks from occurring in the first place, she reasoned, it is the international community's duty to "rebuild and reconstruct the country." She and her colleagues in the new government face an enormous

"We lost our identity,
who we are. Even if
you are born in that
country, you will be a
refugee. It is not easy.
You have no identity.
You don't know how
long you will stay,
and you never know
if things will
change."

- Dr. Sima Samar

task, rebuilding a country that has no infrastructure, just a traumatized population, many born and raised outside Afghanistan.

"We lost our identity, who we are," she said, alluding to the long wait Afghan refugees have faced, hoping every day for news that could take them home. Afghans living in Pakistan will always be refugees, she said. "Even if you are born in that country, you will be a refugee. It is not easy. You have no identity. You don't know how

long you will stay, and you never know if things will change." ■

Students share holiday cheer with children

Disadvantaged youth treated to seasonal party

By Ryan Smith

With students rushing to finish essays and study for exams, a university can be a dour place in early December. But on Dec. 7, a burst of colour, energy and laughter echoed across campus as more than 750 inner-city kids showed up at the University of Alberta for a Christmas party hosted by the Students' Union (SU).

The twelfth annual event included pizza, cookies, crafts, caroling, presents, a visit from Santa and more than 200 student volunteers.

"This is just amazing," said Shân Murray, a Grade 5 teacher from Belvedere Elementary, one of three schools invited to the party. "It's fun, it's active and everything is very well planned. It's a nice break for me because there is a four-to-one ratio of U of A students to our students, so that makes it easy for me."

"Our students are high as a roof. They



The U of A Students' Union shared Christmas cheer with more than 700 young guests during an annual party for disadvantaged children.

have been ever since we told them about this," added Gary McCorquodale, principal of Delton Elementary School. "Our students don't get a lot of opportunities like this."

Not surprisingly, Grade 5 Belvedere student Vicki Horbal said she was looking forward to greeting Santa. "This is way

better than math."

"We've been working on this steadily for about two months," said Alexis Pepin, a U of A student who serves as student activities co-ordinator for the SU. "We were able to get excellent sponsorship and

"This is way better
than math."

- Grade 5 Belvedere
student Vicki Horbal

it's nice to see so many students out volunteering during exam time."

"A lot of these kids wouldn't get to see Santa or celebrate

Christmas if they didn't come today, so I think it's a great event," said second-year science student Ramona Casavant, explaining why she decided to volunteer. "I'll have to stay up a little later than normal to study tonight, but that's okay. It's only one day, I can spare it. Besides, I love kids." ■

Reducing mercury in Alberta's waterways

Researcher eyes coal-based industries

By Stephen Osadetz

During the 1950s and 1960s, an industrial plant in Japan dumped an organic form of mercury into Minamata Bay, killing 52 people. More than 1,200 became sick when they ate fish contaminated with methylmercury, a potent neurotoxin. It wasn't until three decades later, in 1997, that the fish of Minamata bay were again safe to eat.

Today, Dr. Zhenghe Xu, a professor of chemicals and materials engineering at the University of Alberta, cites this tragedy to explain why it's important to decrease mercury emissions from coal burning. It's an area of research Xu is preparing to take on. Though coal contains little mercury, says Xu, by 2010, as much as one-third of Alberta's electricity will be produced by burning coal. The sheer volume of coal burned, he says, would release enough mercury to significantly pollute Alberta's waterways.

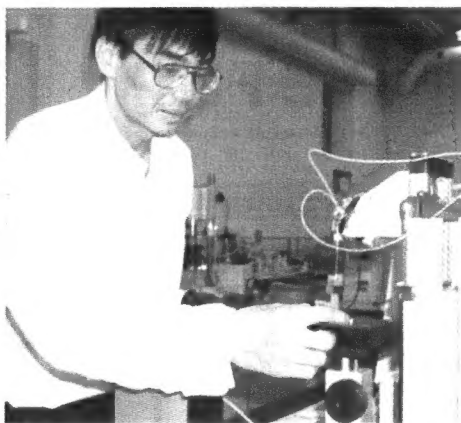
When coal is burned, the mercury it contains vapourizes and is released into the atmosphere. The mercury then con-

denses with water and falls to earth as rain. Finally, it ends up collecting in bodies of water and in the animals that live there. Along the way, the mercury, normally not dangerous for humans, can bind with carbon, turning it into potentially lethal methylmercury.

Dr. Xu hasn't worked with coal since the late 1980s, when he came from China to the United States to do his Ph.D., but his original training in interfacial phenomena (the tiny associations between two substances) is broad enough that he is in high demand in a variety of research areas. In the past he has worked in water purification, advanced combustion technology, drug delivery systems, and oil sands processing.

"I have very broad research areas," says Xu. "If you have a strong background in one area, there are many different ways you can apply it."

Not too long ago, Xu's research rose in profile. Research done with Jaewon



Dr. Zhenghe Xu, a professor of chemicals and materials engineering, is looking for ways to prevent coal-fired industries from polluting waterways.

Choung and Jozef Szymanski, also of the U of A's engineering department, led to what is called the 'integrated process' for cleaning coal of impurities before combustion. This technique, which relies heavily on Xu's command of interfacial phenome-

na, was patented, bought by an American company, and featured in a 1998 issue of the New Scientist.

Though Xu has moved all over North America in recent years, he's happy with his position at the U of A. "I have a much stronger opportunity to develop here because I'm much closer to the industry," he said.

Xu gets the most satisfaction out of developing as a scientist. He's less interested in the glory that comes from making new discoveries than in "the realistic things, like money to do my research and a year's relief from teaching," added Xu.

Specifically, Xu hopes his proposal for an Industrial Research Chair will be approved by the Natural Sciences and Engineering Research Council of Canada and begin in July 2002. If it is, Xu's efforts would bring the provincial government, the university, and industry leaders like EPCOR together to work to reduce the levels of mercury in Alberta's waterways. ■

U of A to host new NSERC research chair

Carries \$3 million in funding

By Richard Cairney

A University of Alberta professor has been chosen as chair of a new national research initiative that could change the way oil and gas companies treat raw resource material. The new multi-million dollar research chair is aimed at improving our understanding of the behaviour of reservoir fluids and heavy oils so the costs of production, transportation, and refining can be reduced.

Dr. John Shaw has been appointed as holder of the Natural Sciences, Engineering and Research Council Industrial Research Chair in Petroleum Thermodynamics. Shaw, who joined the U of A's Department of Chemical and Materials Engineering this fall, is trying to find ways to solve problems presented by naturally occurring solids, such as wax or asphaltene, in oil and gas reservoirs.

The solids are found as particles in oil and natural gas reserves in the same way salt is found in salt water. In the refining stage, the solids can clog equipment. "It can cost you millions in lost revenue because you've had to shut the plant down, clean it out and restart your plant," said Shaw.

At worst, the substances can clog subterranean pores and shut down production of an entire oil or gas field, costing enormous financial losses.

When that happens, "you can't retrieve what's left in the reservoir, where there may be billions of dollars worth of natural gas or condensates," said Shaw.

Shaw's research looks for ways to prevent those problems from occurring in the first place, or ways to minimize the impact the solids have on the extraction and refining processes. One idea he's pursuing involves the development of new techniques to extract those solids at the wellhead. With the help of the NSERC appointment, which comes with \$3 million in funding over five years, Shaw will be able to focus on his work.

"It allows me to do long-term planning for staff and graduate students and research projects, which is a tremendous privilege," he said. "It provides a stable research funding base, which is extremely important—it is critical." ■

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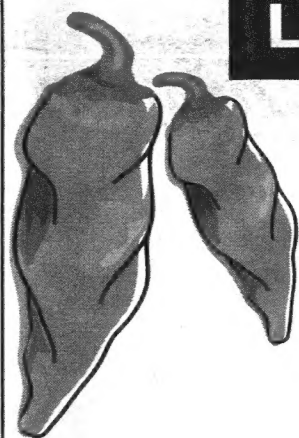
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talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at cora.doucette@ualberta.ca.

EVERY THURSDAY UNTIL APRIL, 2002

The Campus Observatory, roof and 7th floor of the Physics Building, is open for the 2001-2002 academic year. Open to everyone on Thursday evenings (except exam and holiday periods) beginning at 8:00 p.m. Special nighttime or daytime group visits can be arranged for other days and times. The Observatory will be open regardless of weather conditions. On cloudy nights a slide show can be substituted for telescopic observing. Reservations not required. For additional information, please contact Adam Pigeon, S.P.A.C.E. (Students Promoting Astronomy Culture and Education) - new club formed by the undergraduate student volunteers, apigeon@ualberta.ca, or Doug Hube, 492-5410, or Sharon Morsink, 492-3987.

DECEMBER 4 TO DECEMBER 23

Fine Arts Building Gallery. Exhibition: Megan Strickfaden, Industrial Design, "The Design of a Solar Collector." Gallery hours: Tuesday to Friday, 10:00 a.m. to 5:00 p.m., Sundays 2:00 to 5:00 p.m. Closed Mondays, Saturdays, and statutory holidays. This exhibition is the final presentation for the degree of Master of Design in Industrial Design. For further information, please contact the FAB Gallery, 492-2081.

Fine Arts Building Gallery. Exhibition: "Imanihan" Tanya Sehn, MFA Drawing. Gallery hours: Tuesday to Friday, 10:00 a.m. to 5:00 p.m., Sundays 2:00 to 5:00 p.m. Closed Mondays, Saturdays, and statutory holidays. This exhibition is the final visual presentation for the degree of Master of Fine Arts in Drawing. For further information, please contact the FAB Gallery, 492-2081.

FROM NOW THROUGH MARCH 1, 2002

Bruce Peel Special Collections Library. "James Joyce & Virginia Woolf: An Exhibition honouring the 60th anniversary of their deaths." Lower level, Rutherford South, 8:30 to 4:30, Monday to Friday, closed weekends. For more information, please phone 492-5998.

DECEMBER 14, 2001

Ecology Seminar Series (part of the Biological 631 Seminar Series). Department of Biological Sciences. Dr. Michael Fox, "Trophic Dimorphism, Genetic Variation & Reproductive Isolation in Pumpkinseed Populations." Room BS M-145, Biological Sciences Building. 12:00 noon.

Sociology Department. Sociology Policy Speaker Series. Dr. William Leiss, Professor in Policy Studies at Queen's University, an NSERC/SSHRC Research Chair in Risk Communication and Public Policy at the University of Calgary, and President of the Royal Society of Canada. "Managing Scientific Knowledge in an Age of Catastrophic Risks." Room 5-15 Tory Building. 12:00 to 1:00 p.m.

John Dossetor Health Ethics Centre. Health Ethics Seminars. Sara Davison, MD, MHSc (Bioethics), FRPC. "End-Of-Life Care in Dialysis Units." Room 207, Heritage Medical Research Centre. 12:00 to 1:00 p.m.

Department of Biological Sciences Seminar. Genetics 605 Series. Speaker: Sinisa Urban, Department of Molecular Biology, Cambridge University. Title: "Drosophila EGF ligand activation is regulated by subcellular transport and intramembrane proteolysis." Room M-149, Biological Sciences Building. 4:00 p.m.

DECEMBER 15, 2001

Career and Placement Services. Education Workshop. "Resume and Cover Letter Writing." Room 4-02 Students' Union Building. 9:00 a.m. to 12:00 p.m.

Career and Placement Services. Education Workshop. "Interview Skills." Room 4-02 Students' Union Building. 12:30 to 3:00 p.m.

U of A Philosophers' Café: an opportunity for the public to engage in informal, lively conversation about philosophical or topical issues. Topic "Is Edmonton really as ugly as everyone says it is? And why does it matter?" Guest Scholar: Allen Carlson, Professor, Department of Philosophy. Moderator: Bernard Linsky, Chair, Department of Philosophy. Nina's Restaurant, 10139 - 124 Street, from 2:00 to 3:30 p.m.

DECEMBER 17, 2001

Department of Biological Sciences Seminar. Series: Thesis MSc. Speaker: Julius Csotonyi. Title: "Ceratodon moss: agent and recipient of ecosystem engineering." CW 313 Biological Sciences Building. 12:00 p.m.

JANUARY 3 AND 4, 2002

University Teaching Services. An Orientation for graduate teaching assistants is being offered for two full days. This Orientation allows all graduate students to learn more about teaching and is free of

charge. Registration is required. Email Margaret Wilson: uts@ualberta.ca for more details, or phone 492-3208. On January 3, times are: 9:30 a.m. to 6:00 p.m. On January 4, times are: 9:00 a.m. to 4:30 p.m.

JANUARY 8, 2002

Academic Support Centre. Workshop. "Time Management and Reading Strategies." 1:00 to 2:30 p.m. \$20. Call to register: 492-2682.

JANUARY 9, 2002

Academic Support Centre. Workshop. "Time Management and Reading Strategies." 4:00 to 5:30 p.m. \$20. Call to register: 492-2682.

JANUARY 11, 2002

Philosophy Colloquium. Wes Cooper, Department of Philosophy, presents: "Moo & Yoo: A Philosophical Introduction." Room 3-10 Business Building. All Welcome. 3:00 p.m.

Department of Music. Kilburn Memorial Concert with Visiting Artist Claude Frank, piano. 8:00 p.m. Unless otherwise indicated, admission: \$5/student/senior, \$10/adult. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

JANUARY 12, 2002

Department of Music. Kilburn Memorial Piano Masterclass with Visiting Artist Claude Frank. Free admission. 10:00 a.m. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

JANUARY 14, 2002

Department of English. Sheila Delaney, Simon Fraser University, speaking on "The Jewish Connection: Historicizing Chaucer's Priores." 12:00 noon. 4-29 Humanities Centre.

Department of Music. Music at Noon, Convocation Hall. Student Recital Series featuring students from the Department of Music. 12:10 p.m. Free admission. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

JANUARY 15, 2002

Department of Music. New Music Concert featuring works by student composers. Free admission. Convocation Hall. 8:00 p.m. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

JANUARY 17, 2002

Department of English. David Parkinson, University of Saskatchewan, speaking on "What do Poets and Witches Have in Common in Sixteenth-Century Scotland?" Location TBA. Please call Carolyn Preshearing at 492-1046 for more information. 12:00 noon.

Department of English. Made in Canada Series, #2. Dr. Len Findlay, Department of English, University of Saskatchewan. Title: "Content Providers of the World Unite! A Critical Analysis and Canadian Agenda." L-3 Humanities Centre. 3:30 p.m.

JANUARY 18, 2002

Department of English. Made in Canada Series, #2. Workshop. Dr. Len Findlay, Department of English, University of Saskatchewan. 4-29 Humanities Centre. 12:00 noon.

JANUARY 23, 2002

Faculté Saint-Jean. Information meeting concerning the French Immersion Spring and Summer programs. Room 101, Pavillon Central, Faculté Saint-Jean. 3:30 p.m.

JANUARY 24, 2002

Faculté Saint-Jean. Information meeting concerning the French Immersion Spring and Summer programs. Room 101, Pavillon Central, Faculté Saint-Jean. 12:00 p.m.

MAY 22-25, 2002

The 10th Canadian Congress on Leisure Research, sponsored by the Canadian Association for Leisure Studies and hosted by the University of Alberta Faculty of Physical Education and Recreation, will be held in Edmonton. General information on the Congress, as well as specific information on the recently announced Call for Papers, can be found at: www.eas.ualberta.ca/cclr10/

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DIRECTOR OF DEVELOPMENT EXTERNAL RELATIONS

Serving more than 30,000 students in both undergraduate and graduate programs, the University of Alberta is indisputably recognized as one of Canada's largest and most successful research-intensive universities.

Working together, the central development office and the faculties are committed to being recognized as one of the finest and most dedicated development teams in Canada. As we embark upon our new campaign, we are seeking a senior professional leader who wants to lead a new generation of innovative fundraising professionals committed to achieving our vision.

Reporting to the Vice-President (External Relations), the director of development will work with development professionals and others across campus to ensure that we are efficient and effective in our development activities. The director will also work closely with the campaign director and director of principal gifts, in the planning and implementation of the University of Alberta's second fundraising campaign. The incumbent is a key member of the External Relations senior management team, will be expected to provide senior leadership in major gifts, planned giving, annual giving, and stewardship and will be accountable for:

- Effective management of the development process on campus;

- Managing and mentoring staff, fostering co-operative teams, and implementing programs to build an atmosphere of trust;

- Establishing and implementing the vision and strategic plan for the development portfolio;

- Comprehensive and insightful support to the campaign;

- Recruitment and development of high-profile volunteers for the University's development efforts;
- Maintenance of a reasonable portfolio of active prospects.

Requirements:

- Five years of progressively responsible fundraising experience;

- Ten years of senior management experience;

- Solid understanding of philanthropy and stewardship;

- An undergraduate degree; graduate degree considered an asset;

- CFRE designation considered an asset.

This position is a full-time continuing position within the Administrative Professional Officer segment of the AAS:UA collective agreement and includes a comprehensive benefits package.

Salary range: Negotiable (Currently under review).

Please send in confidence a résumé by

December 17, 2001 to:

Susan L. Green

Vice President, External Relations

University of Alberta

3-12 University Hall

Edmonton, Alberta, T6G 2J9

SENIOR DEVELOPMENT OFFICER (MAJOR GIFTS) EXTERNAL RELATIONS

Serving more than 30,000 students in both undergraduate and graduate programs, the University of Alberta is indisputably recognized as one of Canada's largest and most successful research-intensive universities.

Working together, the University of Alberta's development group is committed to being recognized as one of the finest and most dedicated development teams in Canada. This team is committed to building and maintaining relationships and partnerships to maximize philanthropic support for the University of Alberta.

As we embark upon our new campaign, we are seeking an individual who wants to be a part of an innovative group of fundraising professionals committed to achieving our vision. We currently have the following challenging employment opportunity:

Senior Development Officer (Major Gifts)

We are seeking a seasoned fundraising professional who has played a sustained leadership role in major gift solicitation at the executive level to act as an account executive and facilitator for major individual, corporate and foundation donors and who will co-ordinate cultivation, solicitation, and stewardship activities. Senior development officers play a critical role in major gift philanthropic giving and work in collaboration with faculty development professionals to secure major gifts.

Requirements:

- at least five years of progressively responsible fundraising experience, three of which must be at a major gift (\$25,000) level;

- undergraduate degree;

- CFRE designation considered an asset.

This position is a full-time continuing position within the Administrative Professional Officer segment of the AAS:UA collective agreement and includes a comprehensive benefits package.

Salary range: \$46,734 - \$73,992.

Please send in confidence a résumé to:

Luanne Currie

Interim Director of Development

Development Office

University of Alberta

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CLOSING DATE FOR APPLICATIONS:

December 21, 2001

SENIOR DEVELOPMENT OFFICER (PLANNED GIVING) EXTERNAL RELATIONS

Serving more than 30,000 students in both undergraduate and graduate programs, the University of Alberta is indisputably recognized as one of Canada's largest and most successful research-intensive universities.

Working together, the University of Alberta's development group is committed to being recognized as one of the finest and most dedicated development teams in Canada. This team is committed to building and maintaining relationships and partnerships to maximize philanthropic support for the University of Alberta.

As we embark upon our new campaign, we are seeking an individual who wants to be a part of an innovative group of fundraising professionals committed to achieving our vision. We currently have the following challenging employment opportunity:

Senior Development Officer (Planned Giving)

We are seeking a senior fundraising professional to serve as an account manager for a portfolio of primarily individual planned giving prospects, investment counselors and financial advisors to ascertain donor interest and create a financial plan that meets donor wishes while fulfilling the needs of the University of Alberta. The senior development officer (planned giving) works in conjunction with faculty development professionals and contributes to the overall development of fundraising plans and strategies.

Requirements:

- At least five years of progressively responsible fundraising experience, three of which must be within the area of planned giving;

- Solid understanding of current tax law and financial planning as it relates to planned giving;

- Undergraduate degree;

- CFRE designation is considered an asset.

This position is a full-time continuing position within the Administrative Professional Officer segment of the AAS:UA collective agreement and includes a comprehensive benefits package.

Salary range: \$46,734 - \$73,992

Please send in confidence a résumé to:

Luanne Currie

Interim Director of Development

Development Office

University of Alberta

Sixth Floor General Services Building

Edmonton, AB.,

T6G 2H1

CLOSING DATE FOR APPLICATIONS: December 21, 2001

FUND DEVELOPMENT OFFICER

Faculté Saint-Jean, University of Alberta, is seeking a fundraising professional to serve as co-ordinator of fund development activities with alumni and the private sector in order to further its development. The candidate will also work in co-operation with personnel from the main campus development office.

Requirements: a university degree; management experience with at least three years' experience in fundraising or related activities; excellent communication skills, written and oral, in French and English; strong interpersonal skills and the ability to work co-operatively with a broad range of individuals, and to demonstrate initiative and autonomy in the development of special events and specific projects.

This position is for a two-year term with possibility of renewal. Salary will be commensurate with qualifications and experience.

Letters of application, including a résumé and the names of three references should be submitted to:

Claudette Tardif

Dean

Faculté Saint-Jean

University of Alberta

8406 91 Street

Edmonton AB.,

T6C 4G9

CLOSING DATE FOR APPLICATIONS:

January 21, 2002

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NOMINATIONS ARE INVITED for Chancellor of the University of Calgary. This four-year volunteer term position commences in June 2002.

QUALIFICATIONS: The dynamic individual the University of Calgary Senate seeks to elect must be a Canadian citizen or permanent resident with an enthusiastic interest in the University of Calgary. The successful candidate will be honoured to give a significant amount of time to the position because of a demonstrated commitment to post secondary education and to the University of Calgary in particular.

PRIMARY DUTIES: The Chancellor represents the public interest in the university; leads the Senate and Senate Executive Committee; serves on the Board of Governors; presides at convocation, and officiates for ceremonial occasions. The Chancellor also represents the University of Calgary at numerous public and private events.

NOMINATIONS MUST BE RECEIVED IN CONFIDENCE BY: January 18th, 2002

FORMS AND INFORMATION

AVAILABLE FROM:

Joint Committee for

Chancellor Search

University of Calgary

Administration 131,

2500 University Drive N.W.

Calgary, AB T2N 1N4

Telephone: (403) 220-5446

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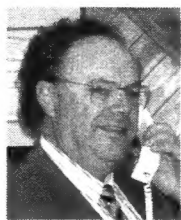
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ADMINISTRATIVE PROFESSIONAL OFFICER UNDERGRADUATE STUDENT SERVICES, FACULTY OF ARTS

Applications are invited for the position of administrative professional officer in the Undergraduate Student Services Office of the Faculty of Arts. As one of three senior advisers, the successful candidate will be responsible for a portion of the faculty's students, including but not limited to: domestic and international admissions and refusals, determination of transfer credit, program advising, and graduation eligibility checking for all degree programs.

The Faculty of Arts is one of the largest at the University of Alberta, comprising 16 departments and offering eight degree programs to about 5,700 undergraduate students.

A post-secondary degree is required for this position. The successful candidate will have proven administrative and organizational abilities, superior written and oral communication skills, and be familiar with post-secondary admission policies and student records. Knowledge of this university's administrative structure and a working knowledge of Peoplesoft Student Administration, or other student information system, is highly desirable. Candidates are also expected to be proficient in the Microsoft suite of programs.

The salary range for this position is \$38,485 - \$60,941 commensurate with qualifications and experience. Applications, together with the names of three references, should be submitted to:

Miss Robin A Cowan, Director, Undergraduate Student Services,
Faculty of Arts, 6-7 Humanities Building,
University of Alberta,
Edmonton, AB,
T6G 2E5.

Deadline for receipt of applications is 5 January 2002.

We thank all applicants; however, only those selected for an interview will be contacted.

ACADEMIC RESEARCH PROFESSIONAL DEPARTMENT OF HUMAN ECOLOGY

A multidisciplinary research group, based in the Department of Human Ecology at the University of Alberta is seeking a research associate to work with a team of researchers on disseminating findings from recently completed and current research projects. The primary responsibility of the research associate will be to write academic journal articles and working papers.

The ideal candidate will have the following qualifications:

Master's degree with extensive research experience or Ph.D. (preferred) in social sciences (sociology, gerontology, health sciences, applied economics, human ecology);

Excellent written and oral communication skills;
Demonstrated success in peer-reviewed publications;

Have a solid understanding of research methods;
Experience working in a social science research environment;

Ability to work as part of a multidisciplinary research team.

Funding is available for a full-time position for one year; part-time applicants will be considered. There may be a possibility of extension pending availability of trust funding. The position would start January 6, 2002. While salary is commensurate with

experience, the salary range is from \$38,000 - \$45,000 per year for full-time equivalent.

To apply for this position, please send a curriculum vitae and one writing sample (published article, technical report, paper) by January 4, 2002 to:

Jacque Eales, Research Manager,
Research on Aging, Policies and Praxis,
Department of Human Ecology,
Room 3-02 Human Ecology Bldg.,
University of Alberta,
Edmonton, AB, T6G 2N1.

For information on our program of research visit our website:

www.hecol.ualberta.ca/RAPP

For further information about the position contact:

Dr. Janet Fast	Dr. Norah Keating
Tel: (780) 492-5768	Tel: (780) 492-4191
FAX: (780) 492-4821	FAX: (780) 492-4821
janet.fast@ualberta.ca	norah.keating@ualberta.ca

MANAGER, JOB DESIGN AND EVALUATION HUMAN RESOURCES

The University of Alberta is seeking a client focused, team-oriented individual to provide leadership to a newly reorganized unit within the Human Resources portfolio. The position will work with the director of support staff, human resources, and the director of academic staff administration in carrying out a mandate to provide a consultative approach to job design and evaluation on campus. The incumbent will be responsible for leading a team that works with Faculties, Departments and staff to approach the creation of new positions and the re-evaluation of existing positions within the context of effective organizational design—helping clients design jobs and job systems that enable them to achieve their organizational goals and provide value-added, enriching roles for staff. Working with the team and university committees responsible for position evaluation, the manager also provides leadership in ensuring the university's job evaluation plans are administered in an objective, credible and efficient manner.

Ideally, the candidate will have a degree in business administration, preferably at the graduate level, with course work and several years of experience in the areas of human resources, organizational design and job design. Demonstrated experience in project management and team leadership is required. Experience using job evaluation methods such as Hay and Aiken is essential.

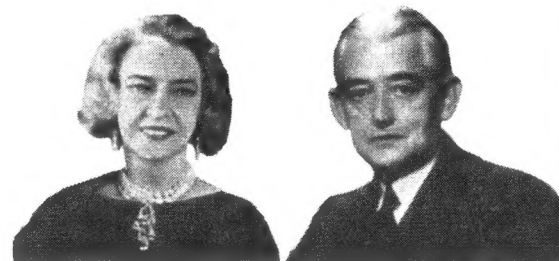
We offer a comprehensive salary and benefits package in an environment that recognizes and rewards excellence. The current salary range for this Administrative Professional Officer position is \$50,086 - \$79,304 per annum.

An acting incumbent will be applying for the position.

Interested candidates are asked to submit their résumés via email to: hrs.recruitment@hrs.ualberta.ca, or through regular mail to the address below, no later than December 21, 2001. Applicants are thanked in advance for their interest; however, only those selected for an interview will be contacted.

Jennifer Gagnon
Senior Negotiator,
Support Staff Human Resources
2-40 Assiniboia Hall
University of Alberta
Edmonton, AB,
T6G 2E7

2002-2003 Killam Annual Professorships



Applications for the 2002-2003 Killam Annual Professorships are now available. All regular, continuing, full-time academic faculty members who are not on leave during 2002-2003 are eligible to apply. Deans, Department Chairs and other senior University administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate Deans and Associate Department Chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty in any given year. Each Killam Annual Professor shall be presented with a \$3500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities, presented

papers, supervision of graduate students, and courses taught. The secondary criterion shall be substantial contributions to the community beyond the University, as evidenced by community involvement directly linked to the applicant's university responsibilities and activities.

Awards are tenable for twelve months commencing 1 July 2002. The completed application must be received at the Office of the Vice-President (Research), 3-7 University Hall, by 4:30 pm, Friday 1 March 2002. The awardees shall be announced by early May, and they will be formally recognized at the Killam Luncheon in the autumn of 2002.

Applications and further details are available on the home page of the Vice-President (Research) at: http://www.ualberta.ca/VPRESEARCH/killam/klm_pr_of2.htm

Please contact Annette Kujda, Administrative Assistant, Office of the Vice-President (Research) at extension 28342 or email: annette.kujda@ualberta.ca if you have any questions.

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EFF-FSIDA (FUND FOR SUPPORT OF INTERNATIONAL DEVELOPMENT ACTIVITIES)

APPLICATION DEADLINE

The deadline for receipt of applications to the EFF-FSIDA is 4:30 p.m., January 15, 2002. The next competition deadline dates are April 15, 2002 and October 15, 2002.

This fund exists to enable staff and graduate students (normally PhD candidates) of the University of Alberta to participate in research and in the interna-

tional transfer of knowledge and expertise through partnerships in developing countries.

Applications and guidelines are available on the University of Alberta International website <www.international.ualberta.ca> under "Overseas Projects and Programs" or from the FSIDA Secretary at University of Alberta International, 1204 College Plaza, 8215-112 Street, phone 492-3094.

Mobile Phones

- It's Not All Talk Anymore !!

Mobile News

Mobile (Cell) phone usage in Europe has exploded over the past few years. The largest growth area is not with traditional voice calls, but rather with what is known in the wireless industry as SMS (short message service) messaging.

Mobile owners are using their phones to exchange text messages, play games, receive all the latest news information, get their daily horoscopes and to order their favorite logos and ringtones directly to their phones.

Specialized ringtones are the latest craze for mobile phone users. People of all ages are enjoying this fun, new feature, which allows users to download their favorite songs and hear the tune when their mobile phone rings. People are downloading ringtones for themselves and are purchasing them as gifts for friend's cell phones as well. Some trend setting Scandinavian Bands have been releasing new songs in the form of ringtones before marketing them through music stores !

Now, these services are being introduced in North America through companies like **Mobip Canada**. Mobip.ca has introduced a comprehensive ringtone service which features over 300 top hits, movie themes, special event songs and seasonal favorites. Mobip.ca also offers over 1000 logos which can be downloaded directly to your mobile.

The easy to use steps to order include calling a 1-900 number (\$1.99 per call) and entering information as prompted. You only need to know who your carrier is, the phone number of the mobile and the code number of your ringtone or logo item. You then receive your ringtone or logo in minutes. Presently in Canada, only Rogers and Fido customers with Nokia phones have access to this new service.

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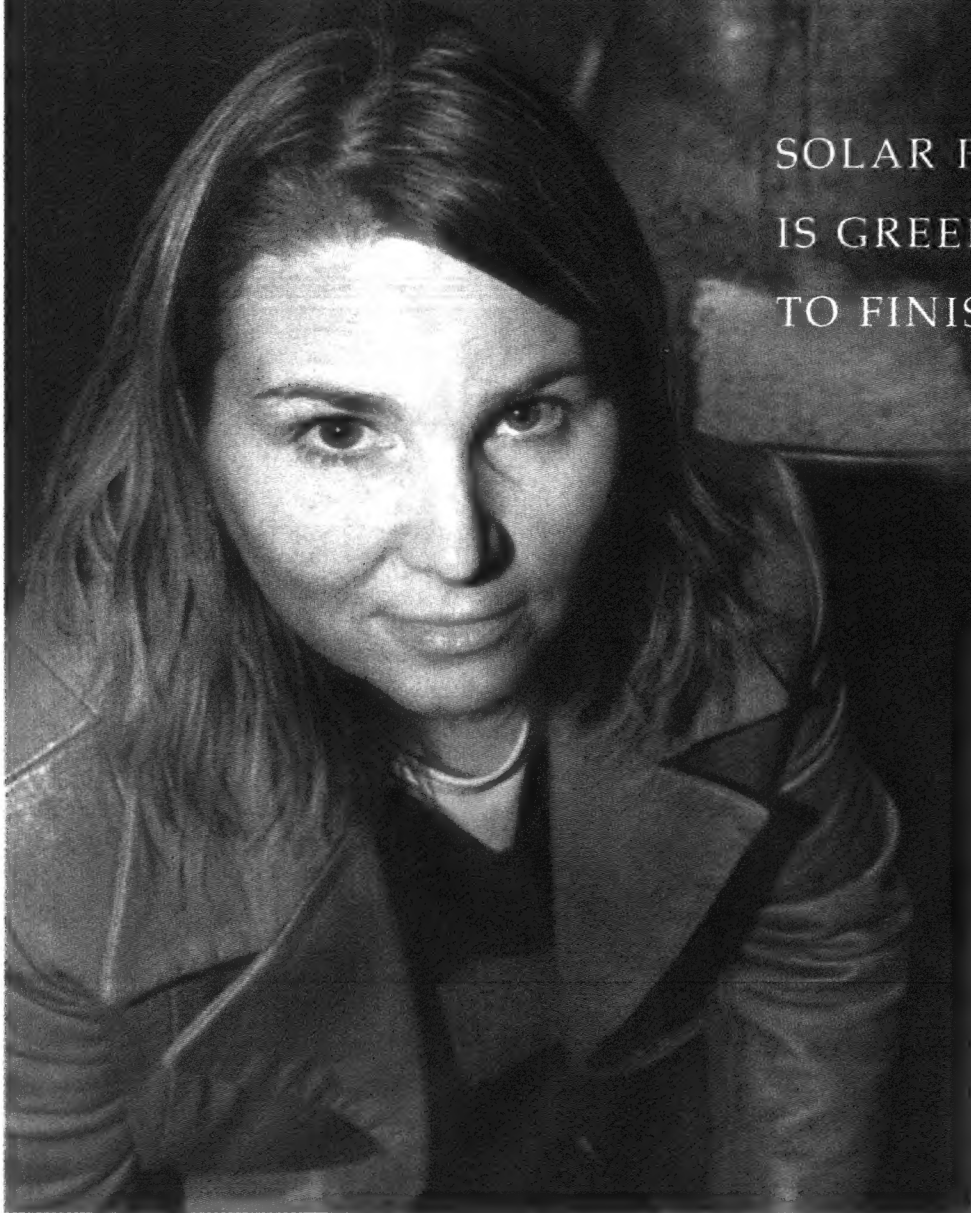
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FROM CRADLE TO CRADLE

SOLAR PANEL PROJECT
IS GREEN FROM START
TO FINISH



By Richard Cairney

The soothing sound of running water echoes from the upper level of the Fine Arts Building Gallery, where a rubber duck floats around in an old bathtub, bobbing around in the warm ripples. Above the tub, pot lights beam down on a small solar panel. Water is pumped through hoses from the tub to the panel and back again. Is it an installation piece? Some commentary on life's deeper meaning?

Yes and no. The exhibit, entitled *The Design of a Solar Collector and its Implications for Sustainable Design Methodology*, is an in-depth examination of a solar panel designed by Megan Strickfaden. The exhibit is her final project for a master's degree in design, with a specialty in industrial design.

Strickfaden has taken the notion of sustainable development to an honest end. She consulted with manufacturers of materials used in construction of her do-it-yourself kit, to find recycled materials in this "cradle-to-cradle" design. When Strickfaden learned manufacturers produce Plexiglas in 8x4-foot sheets, she designed her panels at an even four square feet to prevent waste at the manufacturing stage and to make the panels easy to handle. Bends replace soldered fittings in the copper pipe that snakes its way through her panels, saving on materials. The kit's pumps can save electricity by using solar power to automatically switch them on or off.

"The sun shining is part of the design," Strickfaden explains.

Strickfaden closely examined every aspect of the kit, from the panel's basic form to the design of the box it would be sold in to the instruction manual (printed on recycled paper and folded so there are no staples or glue to complicate its own recycling).

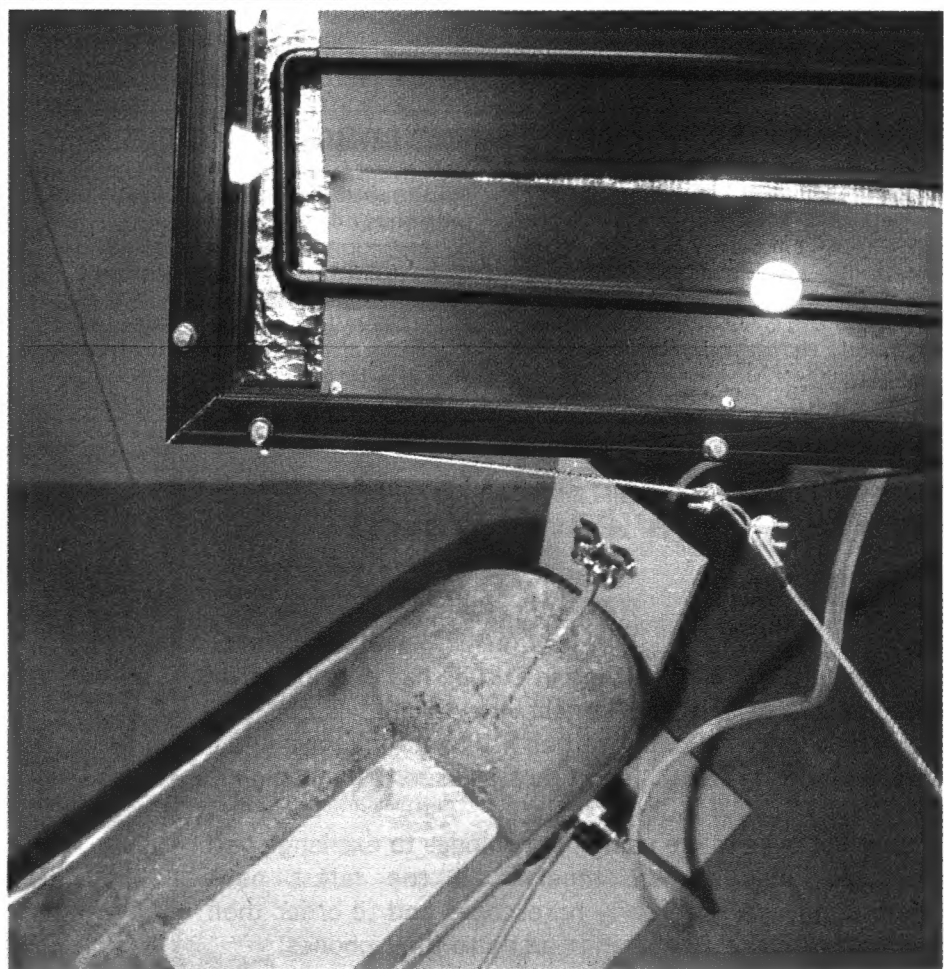
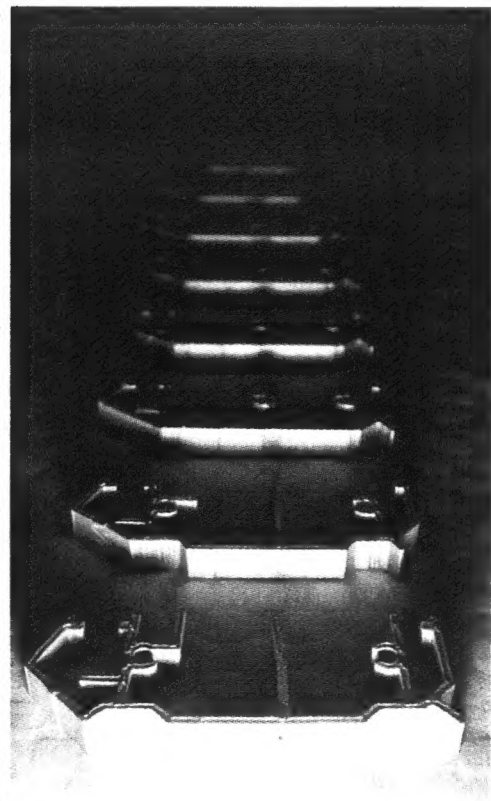
Convinced that few people understand what industrial design is, and that solar-powered products represent some great mystery to most people, Strickfaden intended partly to educate the public about both.

"As soon as you say the word 'industrial' people think of oilfields," she said. "I wanted to describe industrial design and sustainable design and take the mystery out of solar products."

Her work certainly accomplishes that. Descriptions of design, her process and solar panels themselves line the gallery walls. Meanwhile, elements of the panels are on display, including cut-away profiles of parts of the solar panel and a series of slices of the panel's aluminum frame showing the way its design evolved to accommodate both water and air heating.

Form is one thing, and function is another. Will her home solar panel kit work? It will help provide homes with hot water or warm air. And it's easy to install—the only tools required are a Robertson screwdriver, a caulking gun, a box cutter, a drill and a measuring

Megan Strickfaden's working design of a solar collector is on display at the FAB Gallery, complete with warm running water and a rubber duck in a tub. The project's progress is charted in displays like *Frame Extrusion Design Evolution*, which displays subtle changes in the solar panel's frame design. Her project uses as many recycled and recyclable products as possible and uses a manufacturing strategy that keeps waste to a bare minimum.



Chul-Ahn Jeong

tape. Hands-on focus groups helped Strickfaden ensure the 28-step process was easy to take on.

"I'm very interested in the socio-cultural aspect of design—the way a consumer interacts with a product," Strickfaden said. "I've had 65-year-old women putting this together."

The kit has also received enthusiastic support from the Solar Energy Society of Canada's northern Alberta chapter, and Strickfaden says the Edmonton Public

School Board has expressed an interest in her work. Overall, Strickfaden is pleased with the outcome.

"I'd done a lot of one-off designs... but I was feeling that designing furniture wasn't cutting it for me anymore. I started wondering what industrial design was all about anyway, and this is the kind of thing that has a people-product relationship. It isn't disposable. The users form a bond with it."

The exhibit continues until Dec. 23.

folio **back**
page